

Title (en)  
RECEPTION DEVICE AND COMMUNICATION SYSTEM

Title (de)  
EMPFANGSVORRICHTUNG UND KOMMUNIKATIONSSYSTEM

Title (fr)  
DISPOSITIF DE RÉCEPTION ET SYSTÈME DE COMMUNICATION

Publication  
**EP 3604950 A4 20200226 (EN)**

Application  
**EP 17902549 A 20170322**

Priority  
JP 2017011545 W 20170322

Abstract (en)  
[origin: EP3604950A1] A voltage application circuit (310) including a photocoupler (140) and a resistor (144) applies, to a reception terminal (195), a voltage corresponding to an intensity of a communication current flowing through a transmission path. A reception control unit (152) determines whether the communication current is flowing, by comparing the voltage applied to the reception terminal (195) with a predetermined voltage threshold. A voltage adjustment circuit (320) including a resistor (145) and a transistor (146) adjusts the voltage that is applied to the reception terminal (195) by the voltage application circuit (310). A switch control unit (153) switches a current threshold used for determining whether the communication current is flowing by controlling the voltage adjustment circuit (320) in accordance with an intensity of the communication current during an on-control period.

IPC 8 full level  
**F24F 11/30** (2018.01); **H04L 25/02** (2006.01)

CPC (source: EP US)  
**H04B 1/10** (2013.01 - US); **H04B 1/16** (2013.01 - US); **H04L 25/0278** (2013.01 - EP); **F24F 11/89** (2018.01 - EP)

Citation (search report)  
• [Y] WO 2016157472 A1 20161006 - MITSUBISHI ELECTRIC CORP [JP] & US 2018019787 A1 20180118 - KOTAKE HIROAKI [JP], et al  
• [Y] US 2016327304 A1 20161110 - TSUJI TAKAYUKI [JP], et al  
• [A] US 2013325191 A1 20131205 - MUKAI TAKUYA [JP], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3604950 A1 20200205; EP 3604950 A4 20200226; EP 3604950 B1 20231025**; CN 110419201 A 20191105; CN 110419201 B 20220419; JP 6707182 B2 20200610; JP WO2018173173 A1 20191107; US 10680667 B2 20200609; US 2020127691 A1 20200423; WO 2018173173 A1 20180927

DOCDB simple family (application)  
**EP 17902549 A 20170322**; CN 201780088348 A 20170322; JP 2017011545 W 20170322; JP 2019506812 A 20170322; US 201716477980 A 20170322